

Common Core State Standards for Mathematics		
Domain: Arithmetic with Polynomials and Rational Expressions		
Zeroes and Factors of Polynomials (A-APR.2-3)		
High School		
Score 4.0	In addition to Score 3.0, in-depth inferences and applications that go beyond instruction to the standard. The student will:	Example Activities
	3.5 In addition to score 3.0 performance, in-depth inferences and applications with partial success.	
Score 3.0	The student will: • apply the Remainder Theorem (A-APR.2) • identify zeroes of polynomials when suitable factoring is available (A-APR.3) • use the zeroes to construct a rough graph of the function defined by the polynomial (A-APR.3) The student exhibits no major errors or omissions.	Students are placed in groups of three and are given four different polynomial equations and a blank poster. The groups are tasked with factoring and constructing a rough graph of the four functions. Students are to section off their posters into four quadrants showing the factorization and graph of each of their four assigned functions. The posters are then hung around the room and students conduct a gallery walk taking specific note the correlation between the factors of each polynomial and the zeros on the corresponding graph.
	2.5 No major errors or omissions regarding 2.0 content and partial knowledge of the 3.0 content	
Score 2.0	There are no major errors or omissions regarding the simpler details and processes as the student will: • recognize or recall specific vocabulary, such as: ○ • perform basic processes, such as: ○ recall the Remainder Theorem (A-APR.2) However, the student exhibits major errors or omissions regarding the more complex ideas and processes.	The teacher demonstrates the Remainder Theorem and examples for the students to follow. The students are then given time to independently work to set up polynomial division using the Remainder Theorem. The teacher checks student work for accuracy and provides immediate constructive feedback.
	1.5 Partial knowledge of the 2.0 content but major errors or omissions regarding the 3.0 content	
Score 1.0	With help, a partial understanding of some of the simpler details and processes and some of the more complex ideas and processes.	
	0.5 With help, a partial understanding of the 2.0 content but not the 3.0 content	
Score 0.0	Even with help, no understanding or skill demonstrated.	